

CYP2C19 allele nomenclature

Allele	Protein	Nucleotide changes	Trivial name	Effect	Enzyme activity		References
					In_vivo	In_vitro	
CYP2C19*1A	CYP2C19.1A	None	wt1		Normal	Normal	Romkes et al, 1991
CYP2C19*1B	CYP2C19.1B	99C>T; 991A>G	wt2	I331V	Normal		Richardson et al, 199
CYP2C19*1C	CYP2C19.1B	991A>G		I331V	Normal		Blaisdell et al, 2002
CYP2C19*2A		99C>T; 681G>A; 990C>T; 991A>G	m1; m1A	splicing defect	None		de Morais et al, 1994
CYP2C19*2B		99C>T; 276G>C; 681G>A; 990C>T; 991A>G	m1B	splicing defect; E92D	None		Ibeanu et al, 1998b
CYP2C19*3		636G>A; 991A>G; 1251A>C	m2	stop codon	None		de Morais et al, 1994
CYP2C19*4		1A>G; 99C>T, 991A>G	m3	GTG initiation codon	None		Ferguson et al, 1998
CYP2C19*5A	CYP2C19.5A	1297C>T	m4	R433W	None	None	Xiao et al, 1997 Ibeanu et al, 1998a
CYP2C19*5B	CYP2C19.5B	99C>T; 991A>G; 1297C>T		I331V; R433W	None		Ibeanu et al, 1998a
CYP2C19*6	CYP2C19.6	99C>T; 395G>A; 991A>G	m5	R132Q; I331V	None	None	Ibeanu et al, 1998b
CYP2C19*7		IVS5+2T>A		splicing defect	None		Ibeanu et al, 1999
CYP2C19*8	CYP2C19.8	358T>C		W120R	None	Decr	Ibeanu et al, 1999
CYP2C19*9	CYP2C19.9	99C>T; 431G>A; 991A>G		R144H; I331V		(Decr)	Blaisdell et al, 2002
CYP2C19*10	CYP2C19.10	99C>T; 680C>T; 991A>G		P227L; I331V		Decr	Blaisdell et al, 2002
CYP2C19*11	CYP2C19.11	99C>T; 449G>A; 991A>G		R150H; I331V			Blaisdell et al, 2002
CYP2C19*12	CYP2C19.12	99C>T; 991A>G; 1473A>C		I331V; X491C; 26 extra aa		Unstable	Blaisdell et al, 2002
CYP2C19*13	CYP2C19.13	991A>G; 1228C>T		I331V; R410C			Blaisdell et al, 2002
CYP2C19*14	CYP2C19.14	50T>C; 99C>T; 991A>G		L17P; I331V			Blaisdell et al, 2002

<i>CYP2C19*15</i>	CYP2C19.15	55A>C; 991A>G		I19L; I331V			<u>Blaisdell <i>et al.</i>, 2002</u>
<i>CYP2C19*16</i>	CYP2C19.16	1324C>T Existence of the <i>CYP2C19*2</i> polymorphism 681G>A on the same allele can not be excluded		R442C			<u>Morita <i>et al.</i>, 2004</u>

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[CYP2C19](#)
[CYP2D6](#) [CYP2E1](#) [CYP2J2](#) [CYP2R1](#) [CYP2S1](#) [CYP3A4](#) [CYP3A5](#) [CYP3A7](#) [CYP3A43](#) [CYP4B1](#) [CYP5A1](#)
[CYP8A1](#) [CYP21A2](#)

This page was updated 22-Nov-2004 by [Sarah C Sim](#)
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(FILE 'HOME' ENTERED AT 14:04:47 ON 02 MAR 2005)

FILE 'MEDLINE, BIOSIS, CAPLUS' ENTERED AT 14:04:59 ON 02 MAR 2005

L1 3315 S CYP2C19
L2 50 S L1 AND SNP
L3 50 S L1 AND SNP?
L4 1 S L1 AND 352
L5 0 S L1 AND 1060
L6 2891 S L1 AND METABOL?
L7 1056 S L6 AND (POLYMORPH? OR SNP?)
L8 3 S L7 AND CHROMOSOME (1A) 10
L9 66744 S P450
L10 768 S P450 (1A) 2C19
L11 702 S "P450 2C19"
L12 3315 S CYP2C19
L13 3538 S L12 OR L10
L14 1 S L13 AND (352)
L15 0 S L13 AND 1060

FILE 'STNGUIDE' ENTERED AT 14:52:29 ON 02 MAR 2005

L16 0 S L13 AND (POLYMORPH? OR SNP? OR HAPLOTYPE?)

FILE 'MEDLINE, BIOSIS, CAPLUS' ENTERED AT 14:54:38 ON 02 MAR 2005

L17 1243 S L13 AND (POLYMORPH? OR SNP? OR HAPLOTYPE?)
L18 1091 S L17 AND METABOL?
L19 577 DUP REM L18 (514 DUPLICATES REMOVED)
L20 208 S L19 AND PY<2000
L21 193 S L20 AND HUMAN?

FILE 'STNGUIDE' ENTERED AT 15:00:36 ON 02 MAR 2005

FILE 'MEDLINE, BIOSIS, CAPLUS' ENTERED AT 15:01:44 ON 02 MAR 2005

L22 2 S L21 AND (5(1A) FLANKING)
L23 1 S L21 AND (636 OR 639)
L24 17 S L21 AND ("EXON 4" OR "EXON 5")
L25 1 S L21 AND (G689 OR G636)

FILE 'STNGUIDE' ENTERED AT 15:33:06 ON 02 MAR 2005

FILE 'MEDLINE, BIOSIS, CAPLUS' ENTERED AT 15:48:48 ON 02 MAR 2005

L26 306 S L19 NOT PY>2001
L27 1043 S L26 AND "NEW ALLELE" OR "NOVEL ALLELE"
L28 2 S L26 AND ("NEW ALLELE" OR "NOVEL ALLELE")
L29 585 S CYP2C19(1A) (1 OR 2 OR 3 OR 4 OR 5 OR 6 OR 7)
L30 531 S L29 AND METABOL?
L31 338 S L30 AND (SNP? OR POLYMORPH? OR ALLEL?)
L32 39 S L31 AND (NEW OR NOVEL)
L33 17 DUP REM L32 (22 DUPLICATES REMOVED)

FILE 'STNGUIDE' ENTERED AT 15:59:12 ON 02 MAR 2005

L34 0 S MEPHENYTOIN

FILE 'MEDLINE, BIOSIS, CAPLUS' ENTERED AT 16:04:52 ON 02 MAR 2005

L35 2755 S MEPHENYTOIN
L36 29 S CYP2C19(1A)7
L37 10 DUP REM L36 (19 DUPLICATES REMOVED)
L38 285 S CYP2C19 AND REVIEW?
L39 10 S L38 AND (SNP? AND POLYMORPH?)

FILE 'STNGUIDE' ENTERED AT 16:29:27 ON 02 MAR 2005

L40 0 S CYP2C19 NOT PY<2003

FILE 'MEDLINE, BIOSIS, CAPLUS' ENTERED AT 16:35:39 ON 02 MAR 2005

L41 962 S CYP2C19 NOT PY<2003
L42 480574 S L41 AND SNP? OR POLYMORPH?
L43 369 S L41 AND (SNP? OR POLYMORPH?)
L44 51 S L43 AND (NEW OR NOVEL)

L45 26 DUP REM L44 (25 DUPLICATES REMOVED)
L46 3 S CYP2C19 NOT PY<2003 AND "5'-MUTATIONS"
L47 3 S CYP2C19 AND "5'-MUTATIONS"
L48 1 DUP REM L47 (2 DUPLICATES REMOVED)
L49 0 S CYP2C19 AND "5 (1A) MUTATIONS"
L50 5 S CYP2C19 AND (5 (1A) MUTATIONS)
L51 2 DUP REM L50 (3 DUPLICATES REMOVED)
L52 0 S L41 AND (352 OR 1060)
L53 3315 S (CYP2C19 OR (P45 (1A) 2C19))
L54 1 S L53 AND (352 OR 1060)
L55 480574 S L53 AND SNP? OR POLYMORPH?
L56 1198 S L53 AND (SNP? OR POLYMORPH?)
L57 17 S L56 AND (5(1A)FLANK?)
L58 8 DUP REM L57 (9 DUPLICATES REMOVED)